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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EDISON, NEW JERSEY 08837

September 18, 1987

MEMORANDUM

SUBJECT: SAAD Waste Oil Geotechnical Investigation Draft Report

FROM: George R. Prince, Environmental Scientist
Environmental Impact Section
Environmental Response Branch

TO: Greg Powell, OSC
EPA, Region IV

I have attached a copy of a draft report from our EERU contractor covering the drilling program we conducted at the SAAD waste oil site in Nashville, TN. This report will probably remain in draft form as our current contract has expired.

We garnered a significant amount of information from our investigations at the SAAD site. Most of this information is included in this report, but may further require some explanation. We should get together at your convenience to discuss our past efforts and evaluate future needs for removal actions at this site.

Call me if you have any questions at FTS 340-6649.

Attachment

11. ~ 3/29/88

3rd week of April - maybe
4th

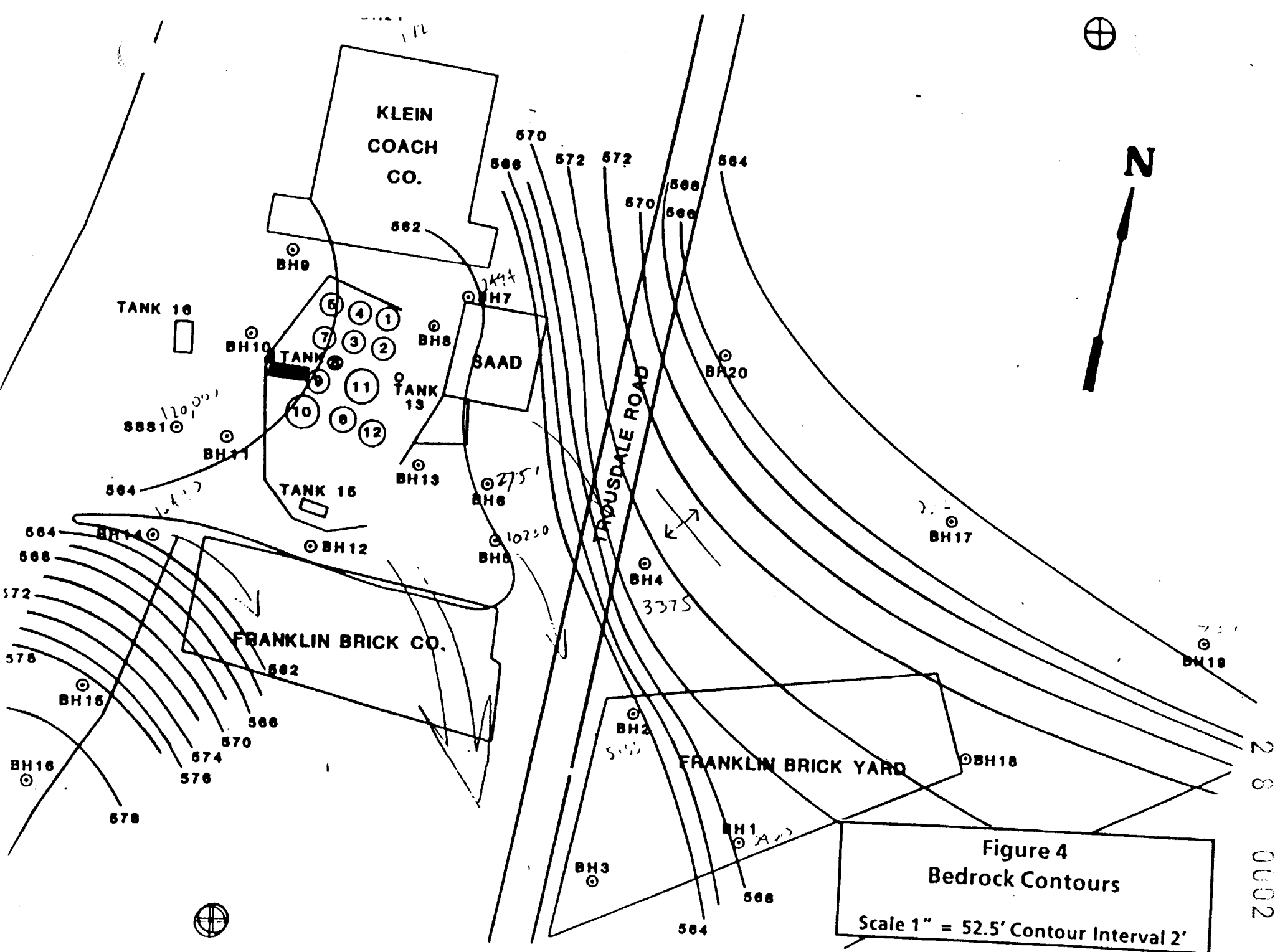


Figure 4
Bedrock Contours
 Scale 1" = 52.5' Contour Interval 2'

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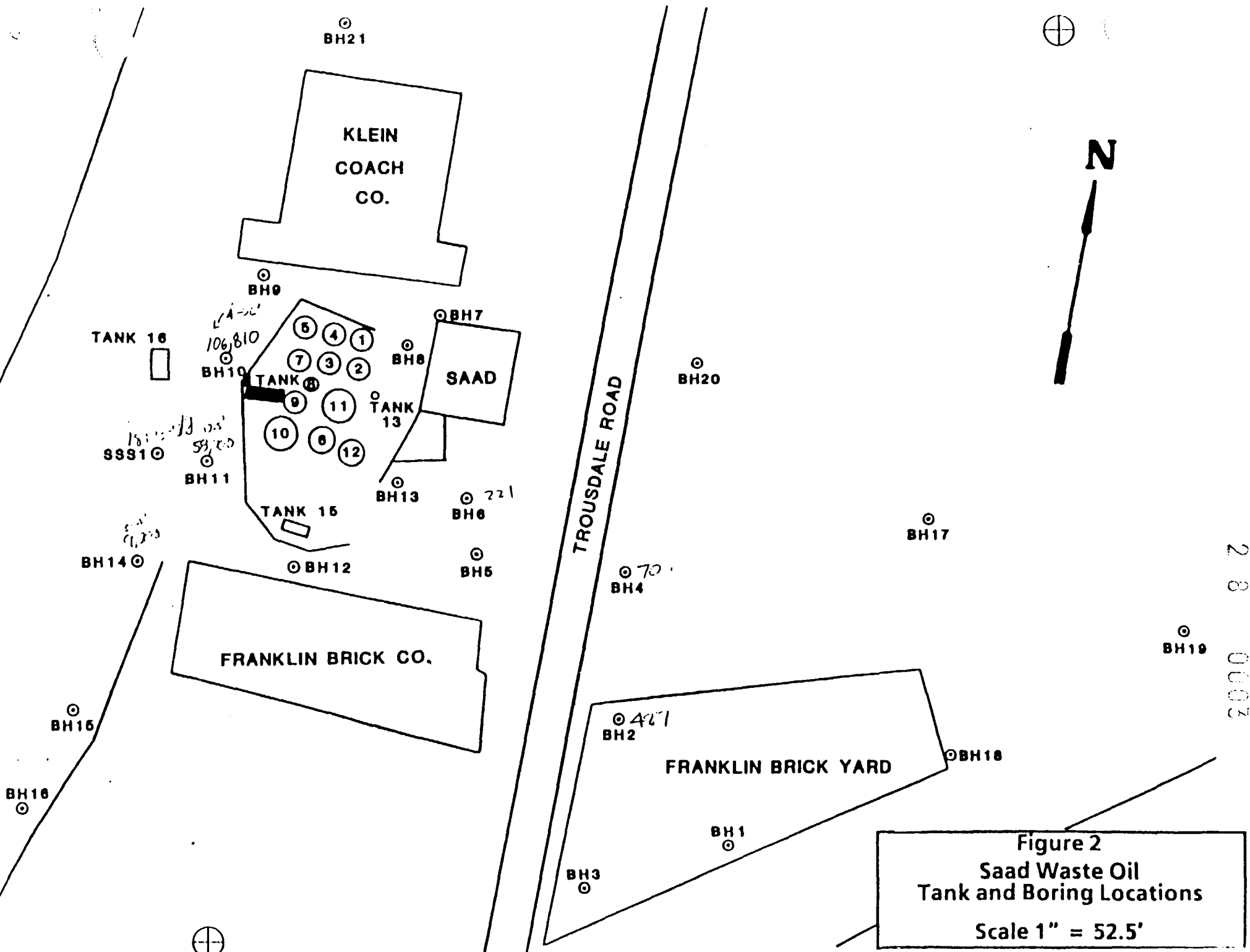


TABLE 7
VOLATILE ORGANICS AND PESTICIDES/PCB'S IN WATER
Concentrations Reported In ug/L

Parameter	Borehole No./Date									
	B-1 3/23/87	B-2 3/23/87	B-4 3/23/87	B-5 3/23/87	B-6 3/23/87	B-7 3/26/87	B-14 3/26/87	B-17 3/23/87	B-19 3/23/87	B-21 3/25/87
Lab Sample No.	5710	5709	5707	5705	5706	5715	5714	5708	5711	5713
Methylene Chloride				200*		53*	2500			1*
Trans-1,2-Dichloroethane	63		420	1200	1900	1800	4100	270	560	14
Chloroethane										13
Toluene	88	4000	1100	7500	360	210	4100			
Total xylenes	1900	880	1500	1100*	150*		310			9
Acetone										68
Chloroform										
Ethyl benzene	220	120*	180				110*			
2 Butanone										9*
4 Methyl-2-pentanone							210*			
Benzene	7*	55*								
1,1 Dichloroethane	78		55	120*	67*	81*	110*	14	39*	33
1,1,1-Trichloroethane										8
Trichloroethene							5000			
Vinyl chloride	64		120		280	350		22	140	18
Carbon disulfide				110*						
Pesticides/PCB's	ND	ND		ND	ND	ND	ND	ND	ND	ND
4,4 - DDT			.56							

ND - None Detected

*Denotes a value below the limit of quantification that is considered approximate

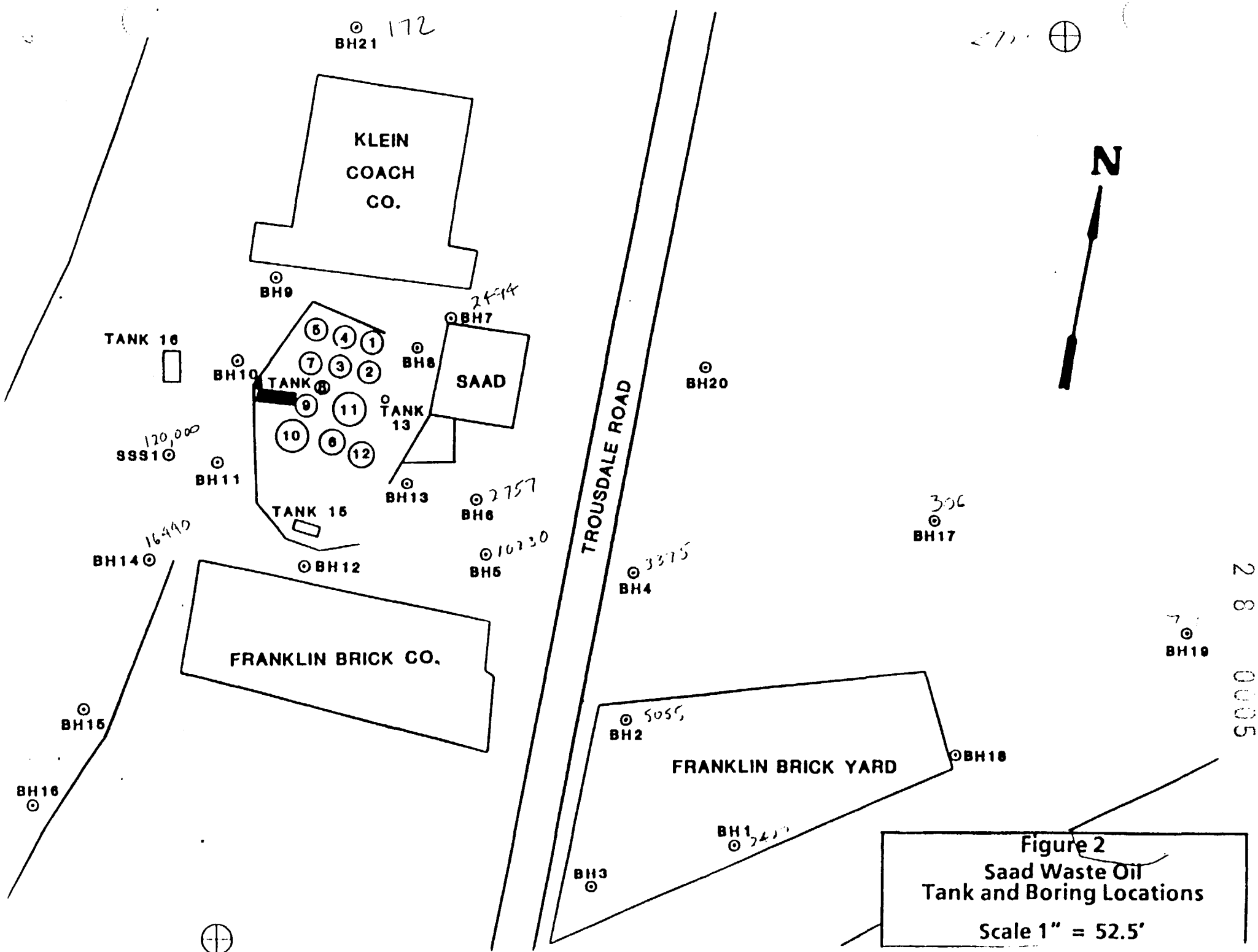


Figure 2
Saad Waste Oil
Tank and Boring Locations
Scale 1" = 52.5'

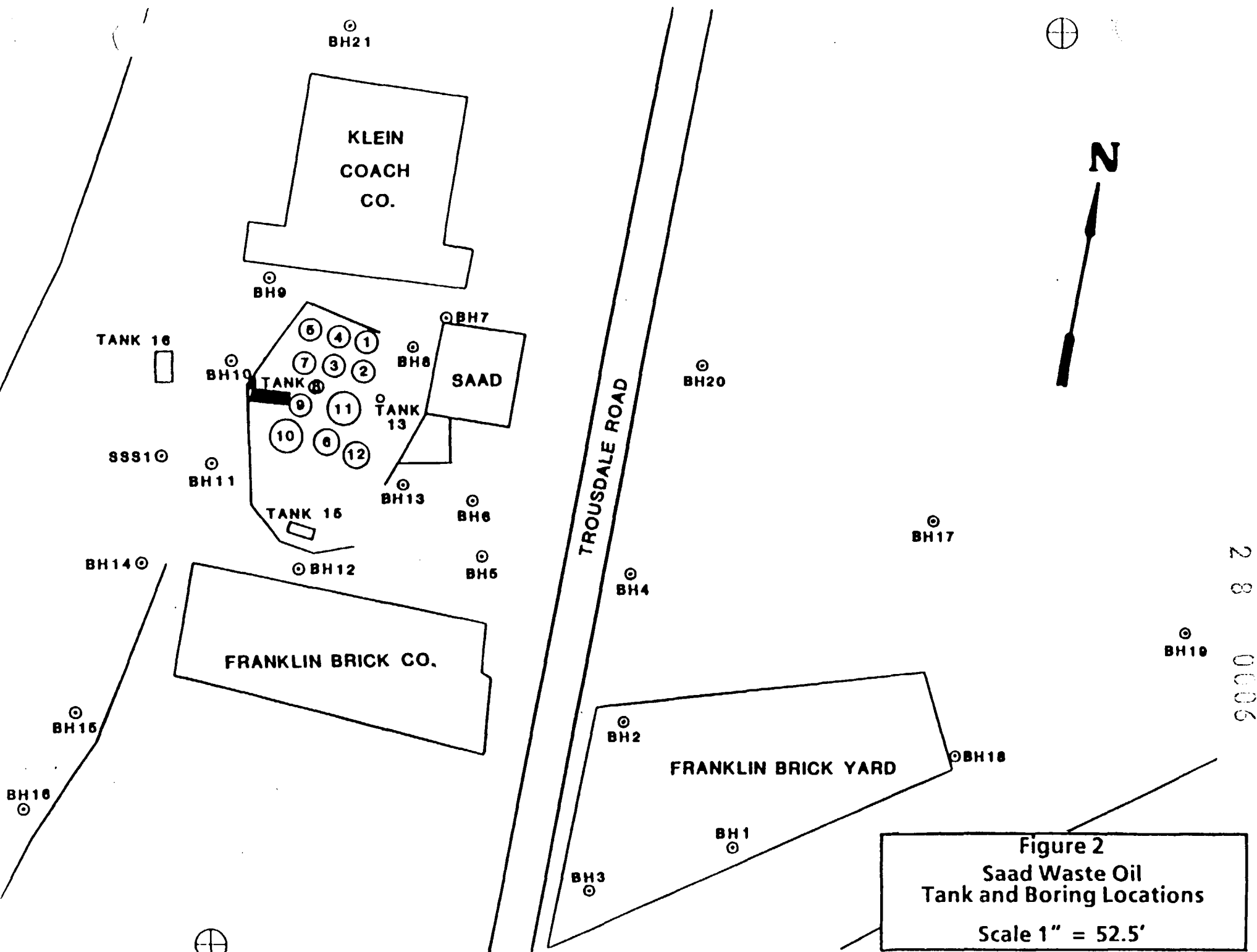


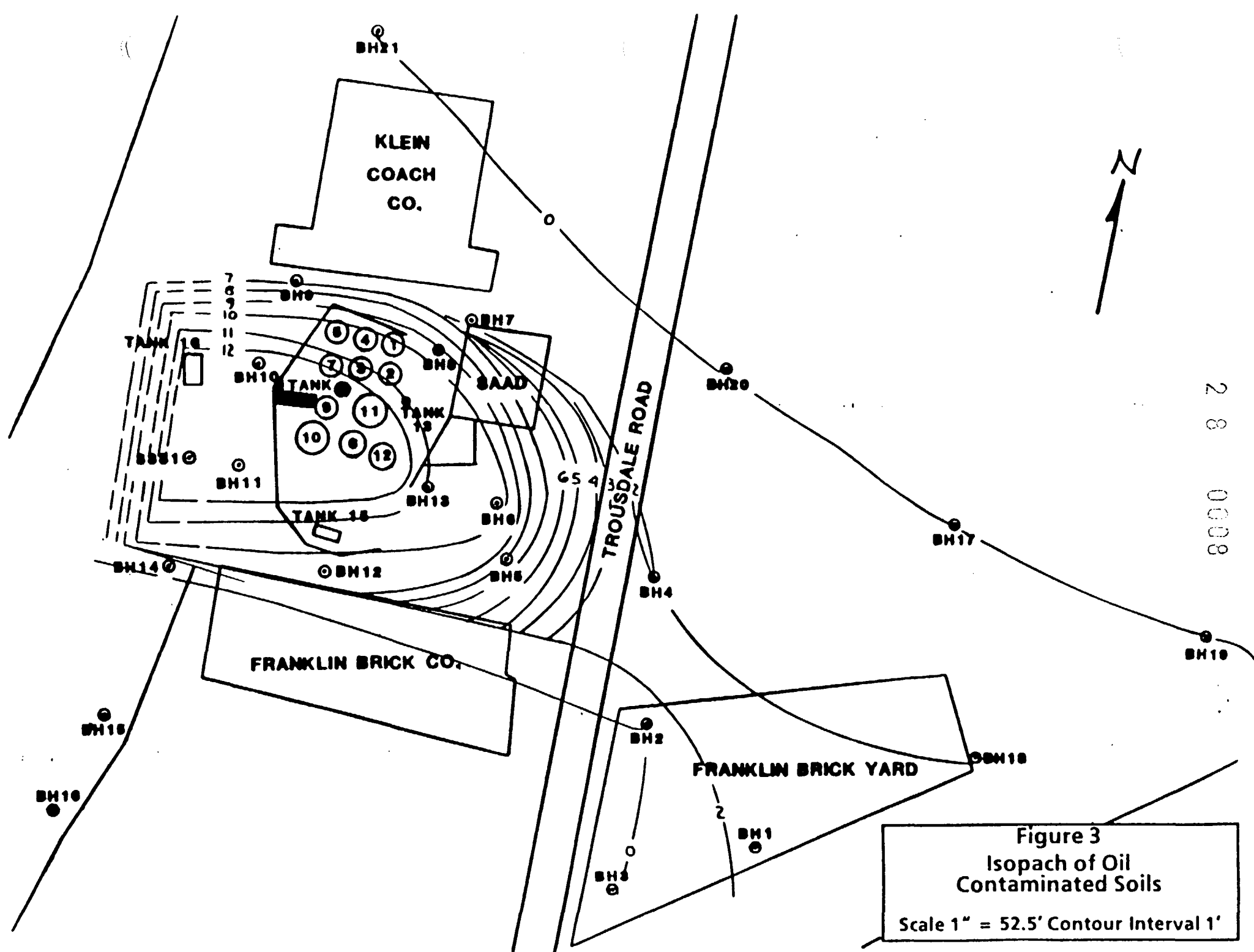
Figure 2
Saad Waste Oil
Tank and Boring Locations
Scale 1" = 52.5'

TABLE 8
OFF-SITE GROUNDWATER

Parameter	Sample									
	Croft Spring	Croft Spring	Croft Spring	Saad Monitoring Well	Saad Monitoring Well 9/87	Well #1 9/87	Well #2	Well #2 9/87	Well #3	Well #3 9/87
Lab Sample No.	SS-S-7-W	SS-CF-SP	7333	SS-SS-MW7	3334	7331	SS-CF-MG2	7332	SS-CF-MW3	7353
Sampling Program			3/87		3/87	3/87		3/87		3/87
1,1 Dichloroethane	2J	ND	ND	1,100	1,700		ND	ND	ND	ND
Chloroform	0.5J			11						
Chlorobenzene	2J									
Vinyl Chloride				6,600	9,800					
Methylene Chloride				19,000	5,500					
1,1 Dichloroethene				690						
Chloroethane				246						
Trans-1,2-Dichloroethane				95,000	52,000					
1,2 Dichloroethane				31						
1,1,1-Trichloroethane				15,000	6,300					
Trichloroethene				69,000	30,000	<5				
Benzene				67						
Tetrachloroethene				49,000	9,600					
Toluene				3,900	4,600					
Chlorobenzene				87						
Ethyl benzene				310	500					

ND - No VOA's detected in analysis

J - Estimated Value



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Figure 3
Isopach of Oil
Contaminated Soils
Scale 1" = 52.5' Contour Interval 1'

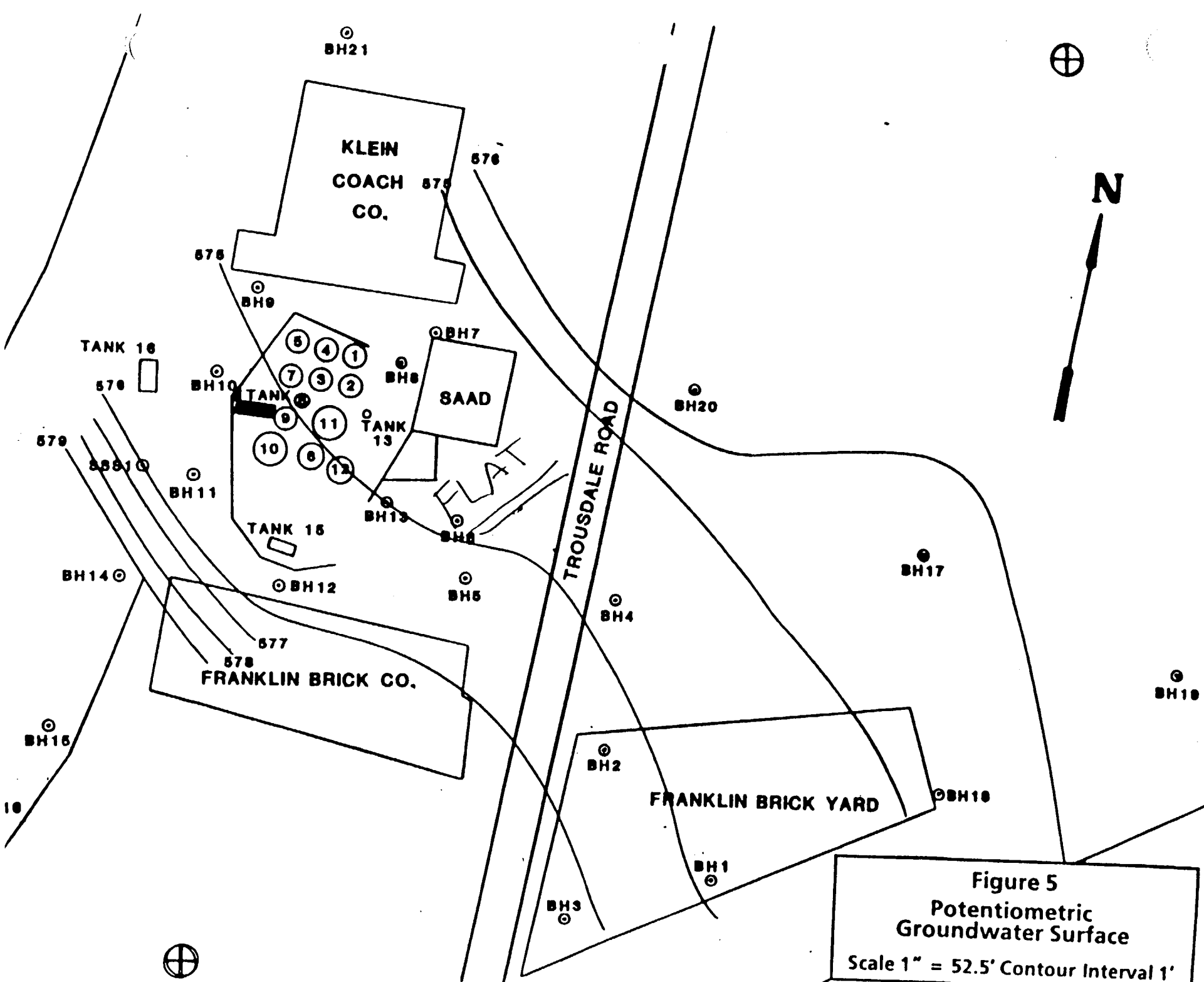


Figure 5
Potentiometric
Groundwater Surface
Scale 1" = 52.5' Contour Interval 1'

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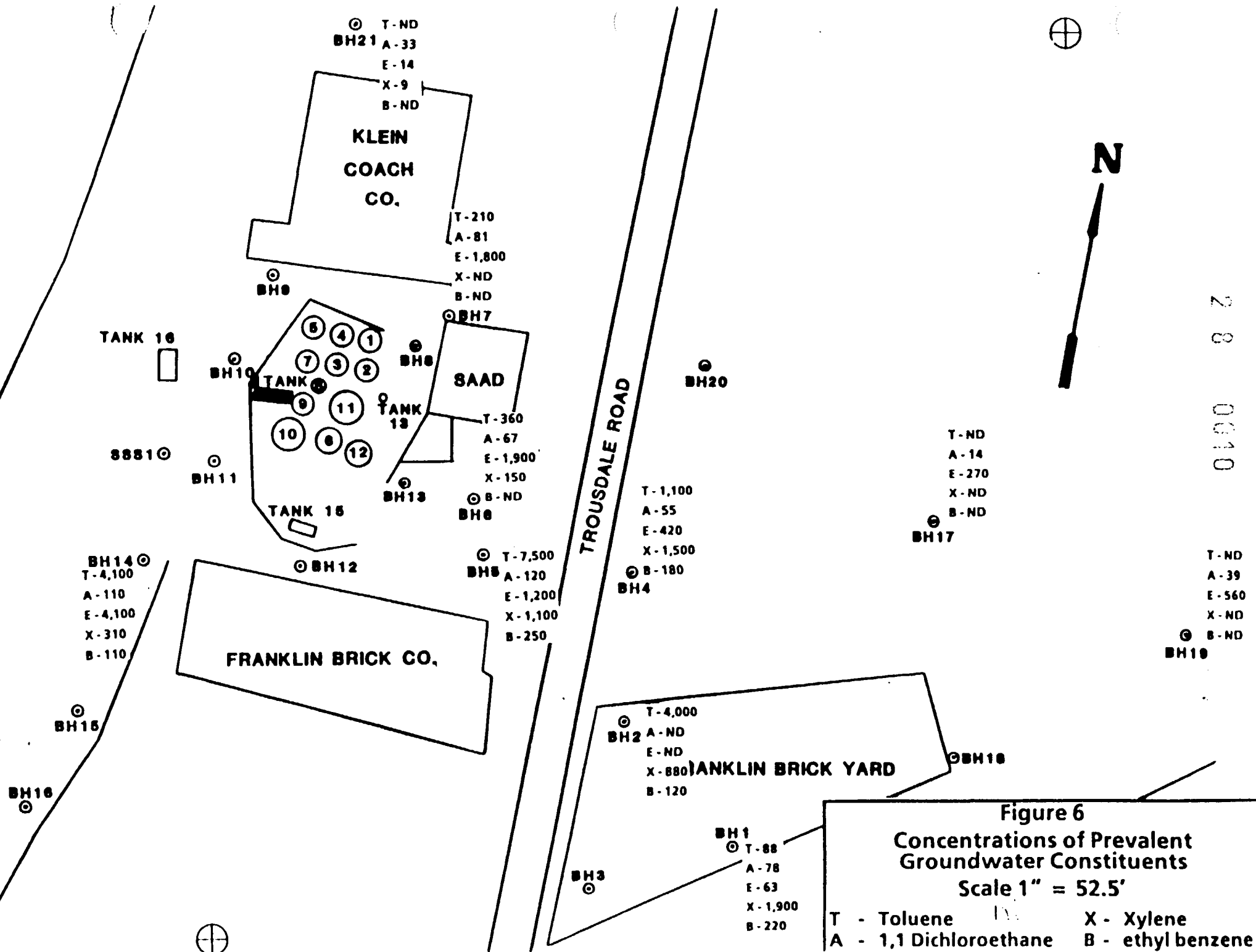


Figure 1
Site Location Map
Saad Waste Oil Site